bio-protocol Preprint

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Extracorporeal circulation treatment

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An abbreviated version of this protocol was published in Science Translational Medicine in Jul 2020

An extracorporeal bioartificial liver embedded with 3D-layered human liver progenitor-like cells relieves acute liver failure in pigs

DOI: 10.1126/scitranslmed.aba5146

Detailed protocol

The pressure sensor was used to detect the plasma pressure in the tube, it's principle was just like electronic blood pressure monitor.
The flow rates associated with the pumps were detected by the corresponding sensor and they were the volume of the liquid per minute.
The pumps were peristaltic pumps.

How to cite:（Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used）

1. Yan, H. (2021). Extracorporeal circulation treatment. Bio-protocol Preprint. bio-protocol.org/prep772.
2. Li, W., Zhu, X., Yuan, T., Wang, Z., Bian, Z., Jing, H., Shi, X., Chen, C., Fu, G., Huang, W., Shi, Y., Liu, Q., Zeng, M., Zhang, H., Wu, H., Yu, W., Zhai, B. and Yan, H.(2020). An extracorporeal bioartificial liver embedded with 3D-layered human liver progenitor-like cells relieves acute liver failure in pigs . Science Translational Medicine 12(551). DOI: 10.1126/scitranslmed.aba5146

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